

CLAIMS

1. Apparatus for continuously preparing compositions containing liquid elastomers and additives comprising: (i) a mixing device for uniformly mixing and dispersing an additive into a liquid elastomer; (ii) one or more servo motor driven pumps for feeding the liquid elastomer to the mixing device; (iii) one or more servo motor driven pumps for feeding the additive to the mixing device; (iv) means for supplying the liquid elastomer to the liquid elastomer servo motor driven pumps; (v) means for supplying the additive to the additive servo motor driven pumps; (vi) means for dispensing a composition containing the liquid elastomer and the additive from the mixing device into a container; (vii) a programmable logic computer so constructed and arranged to control the operation of the servo motor driven pumps for the liquid elastomer and the servo motor driven pumps for the additive, so that a predetermined ratio of RPM between the servo motor driven pumps for the liquid elastomer and the servo motor driven pumps for the additive, is maintained, irrespective of pressure surges in the supply means for the liquid elastomer and the supply means for the additive; and (viii) temperature compensation algorithm means for compensating fluctuations occurring in the temperature of the liquid elastomer.
2. Apparatus according to Claim 1 in which the liquid elastomer comprises a polydiorganosiloxane having a viscosity of about 500 Pa.s (500,000 centistoke) to about 3,000 Pa.s (3,000,000 centistoke) measured at 25 °C,
3. Apparatus according to Claim 1 in which the additive is an inorganic pigment or an organic pigment.
4. Apparatus according to Claim 1 in which the ratio of RPM between the servo motor driven pumps for the liquid elastomer and the servo motor driven pumps for the additive is about 1:2.333